

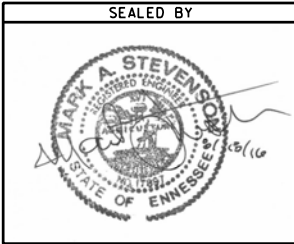
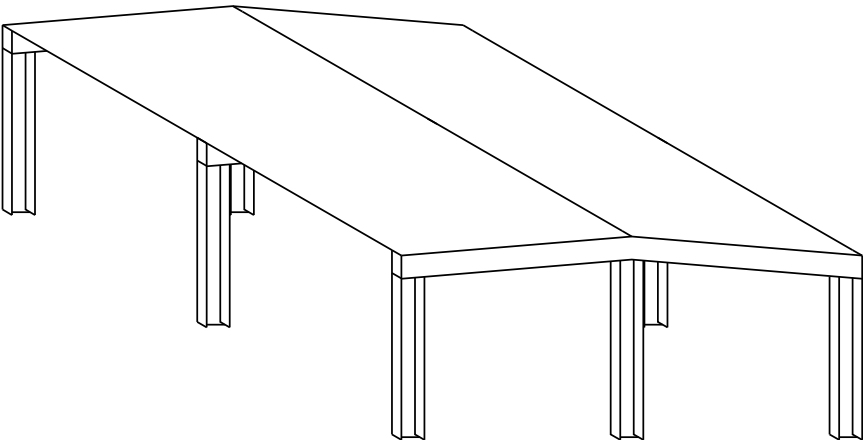
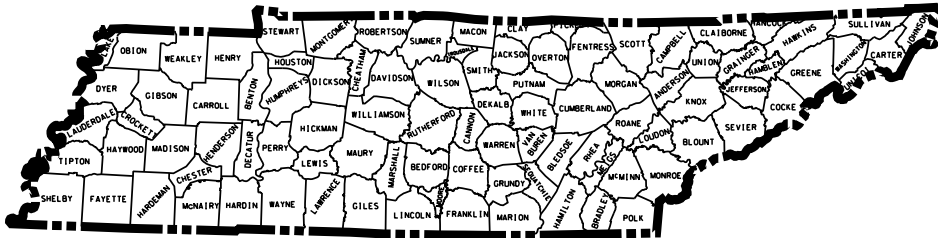
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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING  
STATE OF TENNESSEE

40 FT. x 40 FT.  
SALT BRINE METAL SHEDS

TENN.	YEAR 2016	SHEET NO. 1
FED. AID PROJ. NO.		
STATE PROJ. NO.	99110-4272-04	



SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT TRANS MANAGER 2 ALAN DURHAM

DESIGNER ARCADIS U.S., INC.

FOUNDATION DESIGN BY: MARK A STEVENSON, P.E. CHECKED BY: JEFF HOILMAN, P.E.

P.E. NO. 99110-4272-04

PIN NO. \_\_\_\_\_

MAINTENANCE DIVISION PLANS

APPROVED: Paul D. Degges  
PAUL D. DEGGES, CHIEF ENGINEER

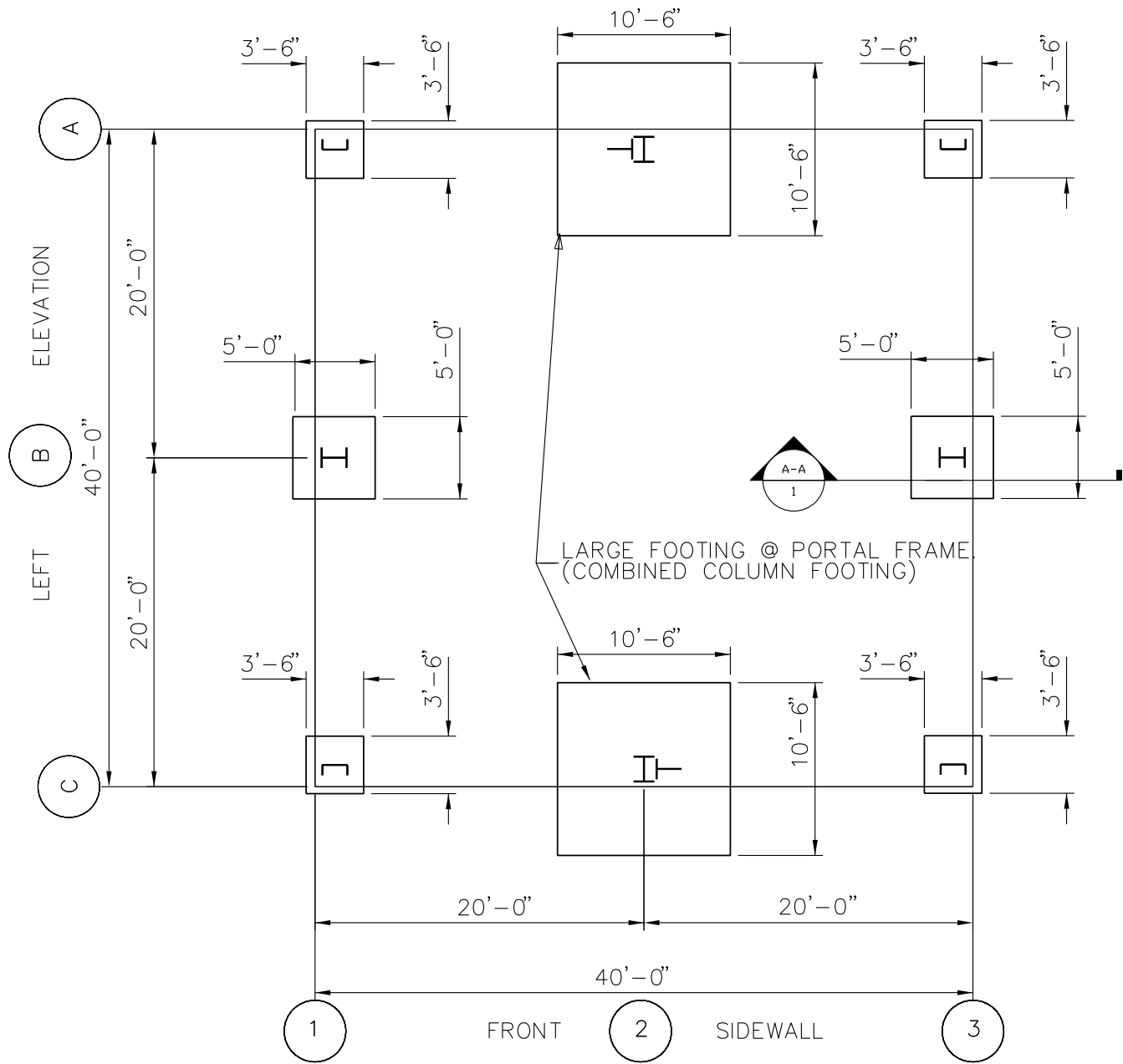
DATE: \_\_\_\_\_

APPROVED: John Schroer  
JOHN SCHROER, COMMISSIONER

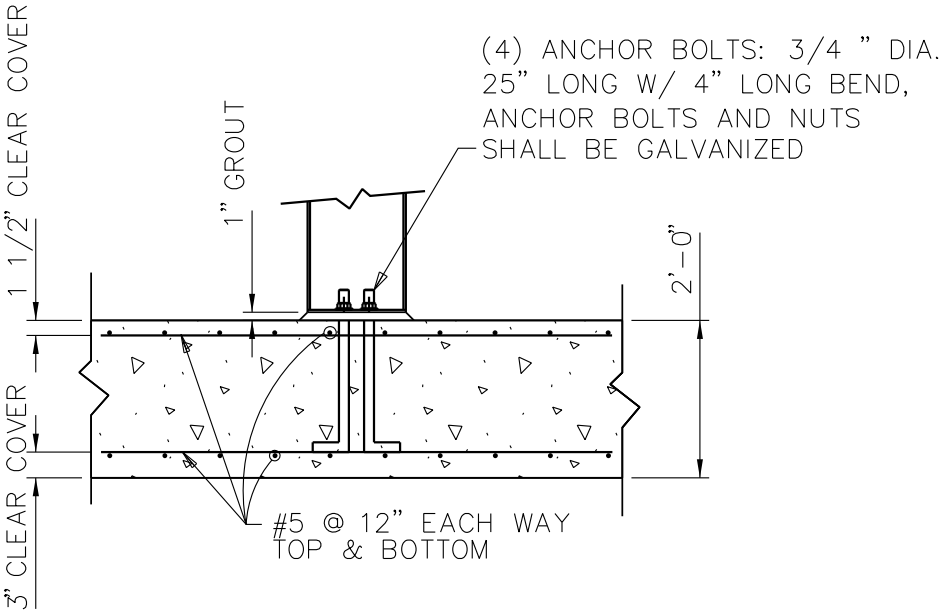
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED: _____	
DIVISION ADMINISTRATOR	DATE

TYPE	YEAR	PROJECT NO.	SHEET NO.
MAINT.	2016	99110-4272-04	2

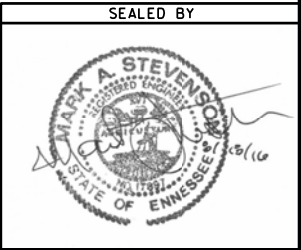
- GENERAL NOTES
- These notes shall apply to the structural foundation drawing unless otherwise indicated by the erection drawings or specifications.
  - Where a detail is shown for one condition it shall apply for all like or similar conditions even though not specifically shown on the drawings.
  - Contractor shall provide adequate bracing and shoring for all work during the construction period.
  - Reinforcing bars shall conform to ASTM A615 and shall be Grade 60. Foundation reinforcing steel shall be #5 bars spaced at 12 inches on-center in each direction, in top and bottom mats.
  - All concrete shall be Standard Weight with 4000 PSI compressive strength at 28 days.
  - All top of footings elevations shall be equal unless specified otherwise.



FOUNDATION PLAN  
NTS



SECTION A-A  
REINFORCING TYPICAL FOR  
ALL FOOTER SIZES



TYPE	YEAR	PROJECT NO.	SHEET NO.
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PRIMER COLOR DESIGNATION

RF - STANDARD RED PRIMER  
GF - GRAY PRIMER  
GZ - GALVANIZED

2

GENERAL NOTES

1. MATERIALS ASTM DESCRIPTION  
STRUCTURAL STEEL PLATE A529 / A572 / A1011  
HOT ROLLED MILL SHAPES A36 / A529 / A572 / A500  
COLD FORM SHAPES A653 / A1011  
ROOF AND WALL SHEETING A653 / A792  
BOLTS A307 / A325  
CABLE A475  
RODS A572 / A108

2. A325 BOLT TIGHTENING REQUIREMENTS  
BOLTED JOINTS SHALL BE CONNECTED AND INSPECTED IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, JUNE 30, 2004, RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS. UNLESS NOTED OTHERWISE ON THE BUILDING SUPPLIER/MANUFACTURERS ERECTION DRAWINGS, ALL A325 BOLTS LARGER THAN 1/2" DIAMETER ARE USED IN CONNECTION DEFINED AS TURN OF NUT.

3. STRUCTURAL SHOP COAT PAINT  
THE COAT OF SHOP PRIMER IS INTENDED TO PROTECT THE STEEL FRAMING FOR ONLY A SHORT PERIOD OF EXPOSURE TO ATMOSPHERIC CONDITIONS. SHOP COAT PRIMER DOES NOT PROVIDE THE APPEARANCE, DURABILITY AND/OR PROTECTION OF AN APPROPRIATE FIELD APPLIED FINISH. STANDARD SHOP COAT PAINT SHALL MEET OR EXCEED THE REQUIREMENTS OF FEDERAL SPECIFICATION TTP-636.

4. TEMPORARY PANEL STORAGE  
PAINTED BUILDING PANELS WITH FLUOROPOLYMER FINISH ARE HIGH-QUALITY CONSTRUCTION MATERIALS. WHILE IN THE BUNDLE, PANELS SHOULD BE PROTECTED FROM HIGH TEMPERATURE, HUMIDITY, AND MOISTURE, OTHERWISE DAMAGE CAN OCCUR TO THE PAINTED SURFACE OF THE PANEL. PLEASE REFER TO THE "WARNING LABEL" THAT THE BUILDING SUPPLIER APPLIES TO EACH BUNDLE OF FLUOROPOLYMER FINISHED PANELS FOR PROPER STORAGE PROCEDURES.

5. TEMPORARY BRACING  
BUILDER/CUSTOMER SHALL SPECIFICALLY NOTE THAT BRACING FURNISHED BY THE BUILDING SUPPLIER IS INTENDED TO BE USED FOR THE COMPLETED BUILDING. THE BUILDING SUPPLIER DOES NOT REPRESENT OR GUARANTEE THAT THE BRACING WILL BE ADEQUATE AS TEMPORARY BRACING DURING ERECTION OF THE BUILDING.

6. PANEL HANDLING  
METAL BUILDING PANELS SHALL BE WAXED OR OILED FOR FINISH PROTECTION DURING SHIPPING AND STORAGE. THE WAX OR OIL MAKES THE PANELS SLIPPERY AND HAZARDOUS TO WALK ON OR STAND ON. THE WAX OR OIL CAN BUILD UP ON SHOES, GLOVES, AND CLOTHING MAKING CLIMBING OR WALKING ON OTHER COMPONENTS HAZARDOUS.

7. ERECTION NOTES  
THE BUILDING MUST BE ERECTED ACCORDING TO THE FRAMING PLANS, STANDARD DETAILS, SPECIAL DETAILS, AND NOTES TO ASSURE COMPLIANCE WITH DESIGN LOADS AND BUILDING CODE REQUIREMENTS. FIELD MODIFICATION OF THE BUILDINGS OR BUILDING COMPONENTS WHICH WILL AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY AN AUTHORIZED REPRESENTATIVE OF THE BUILDING SUPPLIER/MANUFACTURER.

8. WELDING SPECIFICATIONS  
ALL SHOP WELDS ON MATERIALS GREATER THAN OR EQUAL TO 0.125" IN THICKNESS SHALL BE PRODUCED IN ACCORDANCE WITH THE 2010 AWS D1.1 STRUCTURAL WELDING CODE - STEEL. THE REMAINING WELDS ON OTHER THINNER MATERIALS SHALL BE PRODUCED IN ACCORDANCE WITH THE 2008 AWS D1.3 STRUCTURAL WELDING CODE - SHEET STEEL. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.

BUILDING LOADS / DESCRIPTION:  
CERTIFICATION EXTENDS ONLY FOR THE LOADS SPECIFIED ON THE BUILDING/MANUFACTURERS PURCHASE ORDER TO THE STRUCTURAL COMPONENTS OF THE BUILDING DESIGNED AND SUPPLIED BY THE BUILDING/MANUFACTURER. IF ERECTED AS INDICATED, NOTE THAT NEITHER ARCADIS US, INC., NOR THE BUILDING/MANUFACTURER IS THE ENGINEER OF RECORD FOR THIS CONSTRUCTION PROJECT. DESIGN LOADS HAVE BEEN APPLIED IN ACCORDANCE WITH THE FOLLOWING:

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY : 2006 INTERNATIONAL BUILDING CODE

THE CONTRACTOR IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.  
ROOF DEAD LOAD: 2.0 PSF (ROOF PANELS & PURLINS)  
OCCUPANCY CATEGORY: II - Normal  
COLLATERAL LOAD: 1.0 PSF  
GROUND SNOW LOAD: 10.0 PSF Is: 1.0 Ct: 1.2 Ce: 0.9  
ROOF SNOW LOAD: 7.56 PSF MINIMUM SNOW LOAD: 7.56 PSF  
RAIN ON SNOW SURCHARGE: N/A PSF RAIN W/ SNOW (F REQ'D) N/A PSF  
ROOF LIVE LOAD: 20.0 PSF TRIBUTARY REDUCTION Yes  
FRAME LIVE LOAD: 12.0 PSF  
BASIC WIND SPEED: 90 MPH EXPOSURE: B W: 1.0 KZT: 1.0  
SEISMIC CRITERIA: Ss: 0.35 S1: 0.15 SDS: 0.35 SD1: 0.21  
SEISMIC USE GROUP: SITE CLASS: D Ie: 1.0  
SEISMIC DESIGN CATEGORY: D TL: 12  
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE  
LATERAL DIRECTION - BASE SHEAR: 110 KIPS R:3.50 CS:0.100  
STRUCTURAL SYSTEM: ORDINARY STEEL MOMENT FRAMES, OSMF  
LONGITUDINAL DIRECTION - BASE SHEAR: 245 KIPS R:1.25 CS:0.281  
STRUCTURAL SYSTEM: CANTILEVERED COLUMN SYSTEM TO CONFORM TO THE REQUIREMENTS OF OSMF, CCS  
DEAD LOAD: NORMAL WEIGHT OF METAL BUILDING COMPONENTS AS SUPPLIED BY THE MANUFACTURER  
THIS BUILDING IS DESIGNED AS AN OPEN STRUCTURE. ALL EXTERIOR COMPONENTS (DOORS, WINDOWS, ETC.) MUST BE DESIGNED TO WITHSTAND THE WIND LOADINGS SPECIFIED FOR THE DESIGN OF COMPONENTS AND CLADDING IN THE DESIGN CODE LISTED ABOVE. ALL EXTERIOR COMPONENTS (WINDOWS, DOORS, ETC) MUST MEET WIND LOADING REQUIREMENTS FOR THE BUILDING CODE LISTED ABOVE OR MUST BE ADEQUATELY PROTECTED DURING A HIGH WIND EVENT. ALL GLAZING AND OTHER APPLICABLE OPENINGS IN WINDBORNE DEBRIS REGIONS MUST BE IMPACT-RESISTANT OR PROTECTED WITH AN IMPACT-RESISTANT COVERING. IMPACT RESISTANT MATERIALS MUST MEET THE LARGE AND/OR SMALL MISSILE TEST OF ASTM E 1996 AND ASTM E 1886.

OTHER LOADS

ENGINEER NOTES

NO SHEATHING TO BE ADDED WITHOUT AN ENGINEERING REVIEW.

PRIMER:

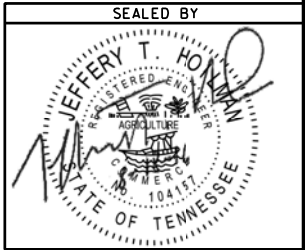
STRUCTURAL FRAMING: RP  
SECONDARY FRAMING: RP

ROOF PANELS:

TYPE: RIBBED 26 Ga.  
COLOR: POLAR WHITE

ENGINEER SEAL

2-5-16

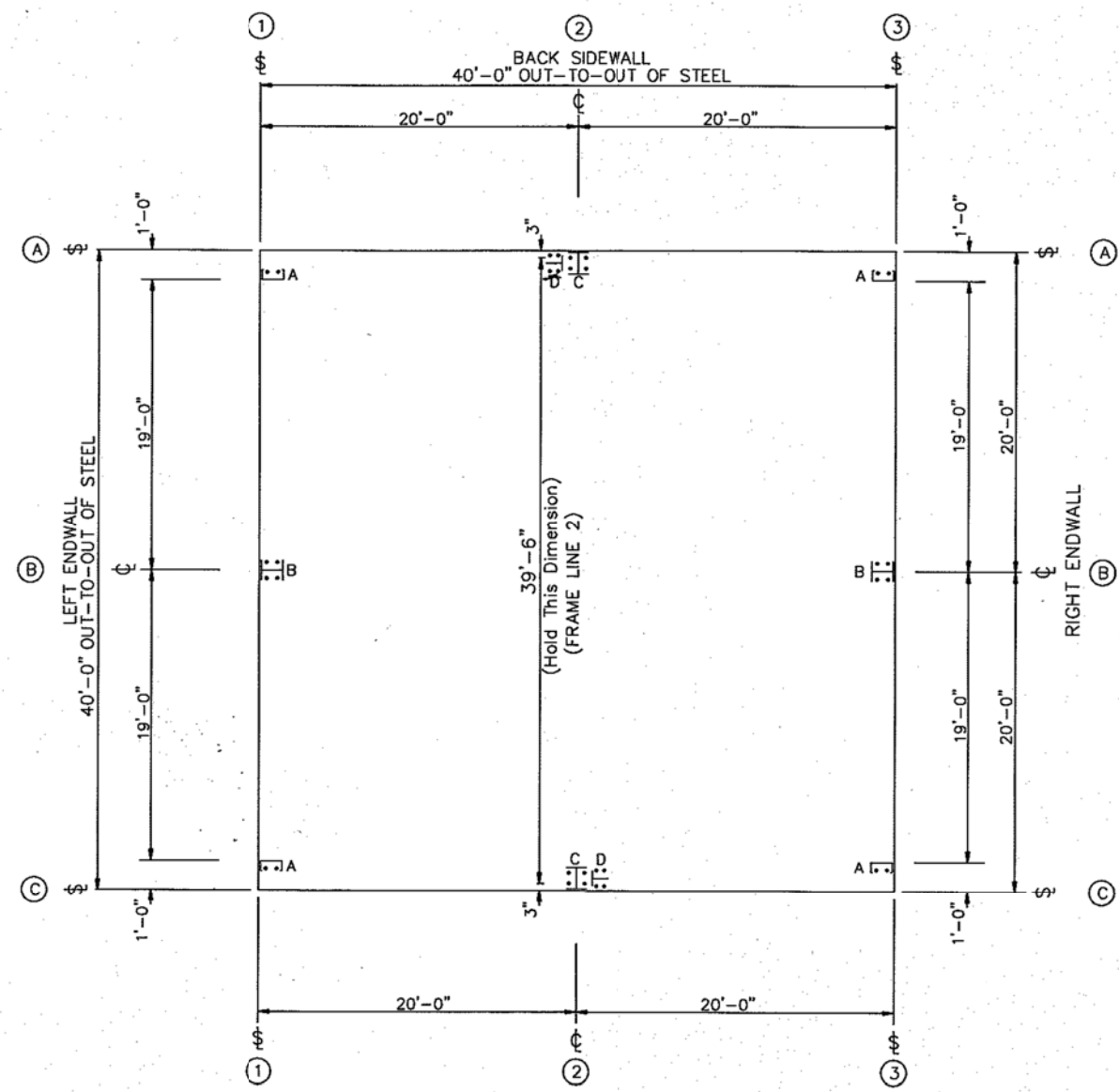


BUILDINGS SHOWN ARE TYPICAL LAYOUTS WHICH WERE DEVELOPED IN CONJUNCTION WITH A BUILDING SUBCONTRACTOR. SHEETS HAVE BEEN MODIFIED FROM THE SUBCONTRACTOR TO REMOVE THE PROPRIETARY MANUFACTURER INFORMATION.

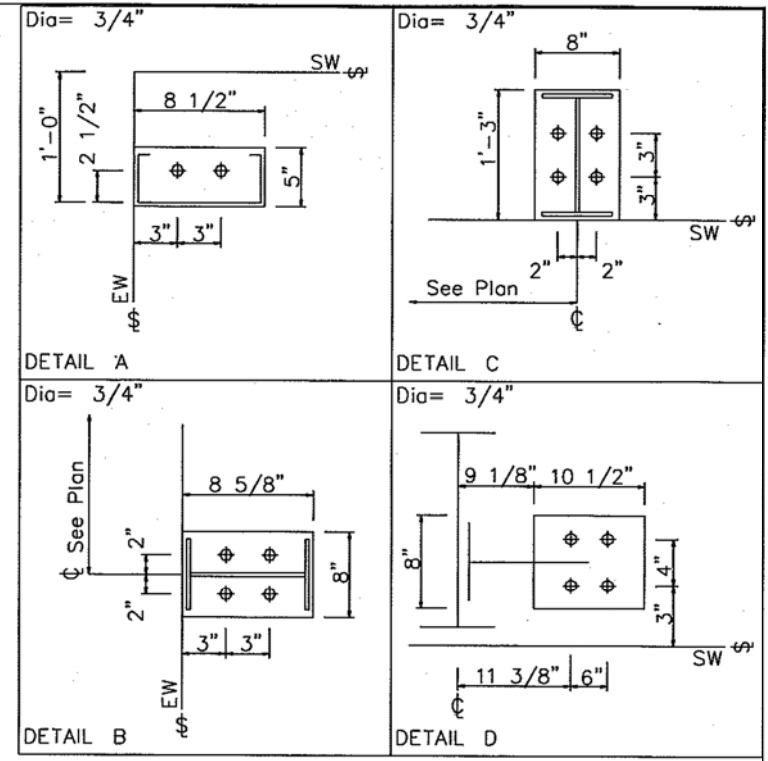
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES  
40 FT x 40 FT

TYPE	YEAR	PROJECT NO.	SHEET NO.
MAINT.	2016	99110-4272-04	4

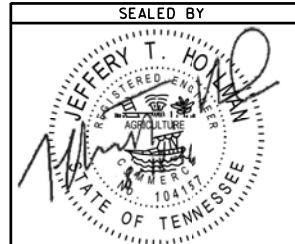


ANCHOR BOLT PLAN  
NOTE: All Base Plates @ 100'-0" (U.N.)  
NOTE: Finished Floor Elevation @ 100'-0" (U.N.)



- GENERAL NOTES:
- ALL DIMENSIONS ARE OUT TO OUT OF STEEL. IF CONCRETE NOTCH IS REQUIRED, THEN THE APPROPRIATE DIMENSIONS SHOULD BE ADDED TO OBTAIN THE OUT TO OUT OF CONCRETE DIMENSIONS.
  - CONCRETE STRENGTH = 4000 PSI MINIMUM.
  - ANCHOR BOLTS ARE NOT FURNISHED BY THE BUILDING MANUFACTURER.
  - DRAWINGS ARE NOT TO SCALE.

A.B. SIZE AND PROJECTION		ANCHOR BOLT QUANTITY		ALLOW. LOAD TO BOLTS (LBS.)	PROJ. P (IN.)	MIN. EMBED D (IN.)
	QTY.	BOLT DIA.				
	AS REQ'D	1/2"				
	32	1/2"		8400	2 1/2"	**
		1"		15,000	3"	**
		1 1/4"		23,400	3 1/2"	**
		1 1/2"		33,700	3 1/2"	**
BOLT MATERIAL = ASTM A36						
** - ANCHOR BOLT EMBEDMENT LENGTH "D"						



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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ANCHOR BOLT PLAN  
40 FT x 40 FT

TYPE	YEAR	PROJECT NO.	SHEET NO.
MAINT.	2016	99110-4272-04	5

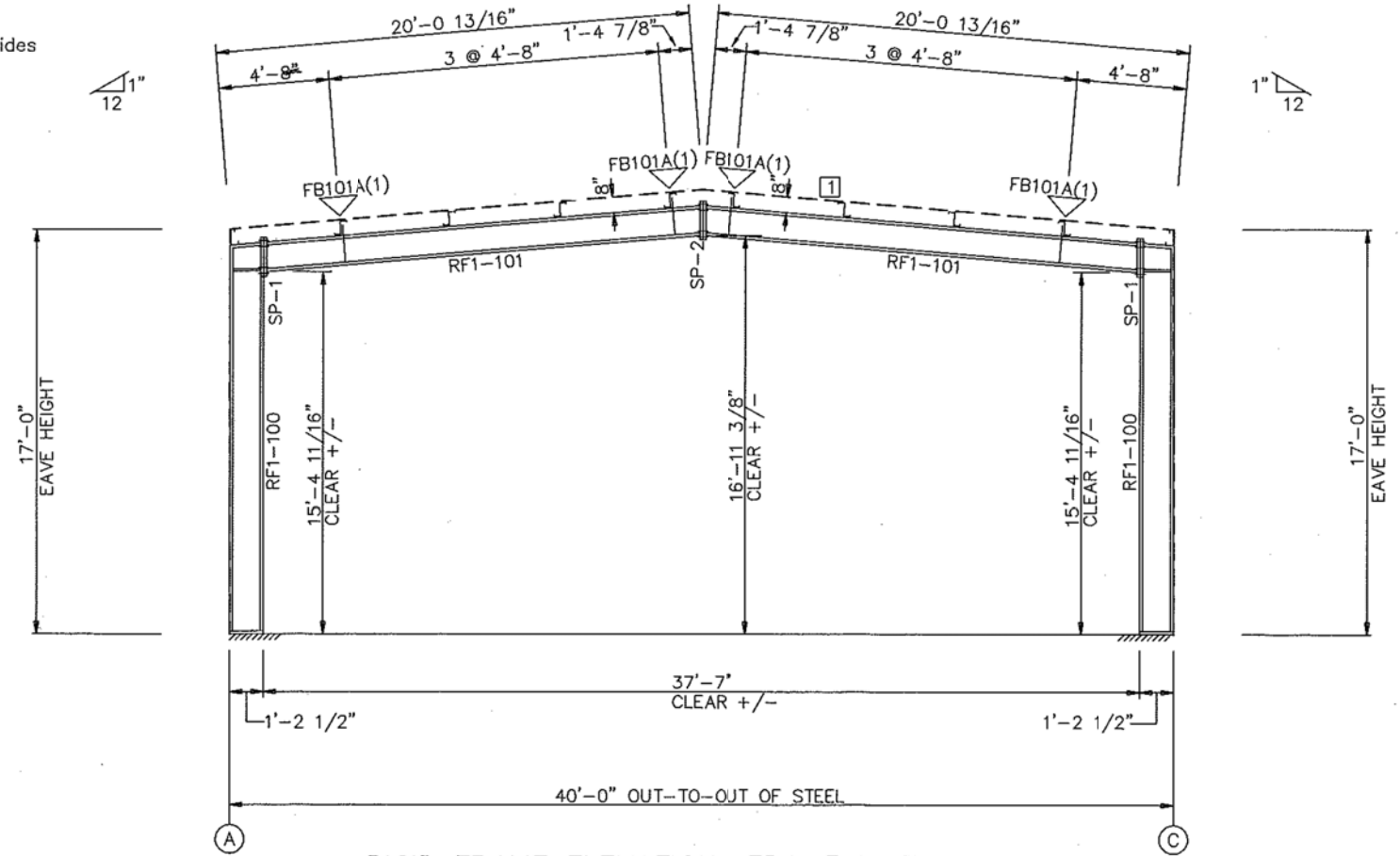
SPlice PLATE & BOLT TABLE									
Mark	Qty	Top	Bot	Int	Type	Dia	Length	Width	Thick
SP-1	4	4	0		A325	3/4"	2 1/2"	8"	1/2"
SP-2	4	4	0		A325	3/4"	2 1/2"	6"	3/8"

STIFFENER TABLE				
Mark	Stiff	Mark	Plate Size	Length
RF1-100	St- 1		4.000 0.250	5.750

MEMBER TABLE						
Mark	Weight	Web Depth	Web Plate	Outside Flange	Inside Flange	
RF1-100	391	14.0/14.0	0.164 196.4	8 x 1/4" x 195.2	8 x 1/4" x 180.8	
RF1-101	278	12.0/12.0	0.135 226.2	8 x 1/4" x 14.3	5 x 1/4" x 225.1	

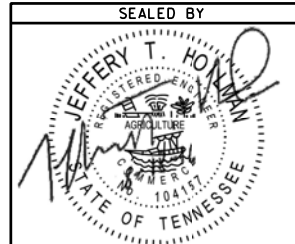
CONNECTION PLATES	
ID	Mark/Part
1	PC20

FLANGE BRACES: (1) One Side; (2) Two Sides  
FBxxA(1)  
A - L175x075



RIGID FRAME ELEVATION: FRAME LINE 2

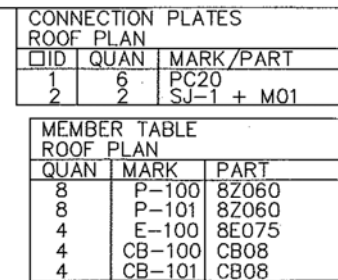
1. REFERENCE ELEVATION = 100'0".
2. ALL BASE PLATES AT REFERENCE ELEVATION UNLESS NOTED.
3. SEE ANCHOR BOLT PLAN FOR ANCHOR BOLT SIZES AND DETAILS.
4. FLANGE BRACES ARE REQUIRED ON TWO SIDES (2) OR ONE SIDE (1) AS NOTED.
5. ALL MAIN FRAME CONNECTION BOLTS ARE A325 BOLTS.
6. FOR FLANGE BRACE CONNECTIONS IN THE ROOF, SEE BUILDING MANUFACTURER'S DETAILS. FOR FLANGE BRACE CONNECTIONS IN THE WALLS, SEE BUILDING MANUFACTURER'S DETAILS.
7. ALL FLANGE BRACE LOCATIONS MARKED TWO SIDES (2) AT EXPANDABLE END FRAMES REQUIRE ONE FLANGE BRACE TO BE INSTALLED AT THE TIME OF ERECTION, WHILE THE OTHER IS TO BE STORED AND USED AT THE TIME OF A FUTURE ADDITION.
8. ALL CONNECTION BOLTS OR FIELD WELDS, PURLINS AND ALL FLANGE BRACES MUST BE PROPERLY INSTALLED ON MAIN FRAMES AS THEY ARE ERECTED AND BEFORE ERECTION LOADS ARE APPLIED.



BUILDINGS SHOWN ARE TYPICAL LAYOUTS WHICH WERE DEVELOPED IN CONJUNCTION WITH A BUILDING SUBCONTRACTOR. SHEETS HAVE BEEN MODIFIED FROM THE SUBCONTRACTOR TO REMOVE THE PROPRIETARY MANUFACTURER INFORMATION.

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

CROSS SECTION  
40 FT x 40 FT



- SEALED BY
- JEFFERY T. HONAN  
REGISTERED ENGINEER  
AGRICULTURE  
COMMISSION  
STATE OF TENNESSEE  
NO. 1041157

BUILDINGS SHOWN ARE TYPICAL LAYOUTS WHICH WERE DEVELOPED IN CONJUNCTION WITH A BUILDING SUBCONTRACTOR. SHEETS HAVE BEEN MODIFIED FROM THE SUBCONTRACTOR TO REMOVE THE PROPRIETARY MANUFACTURER INFORMATION.

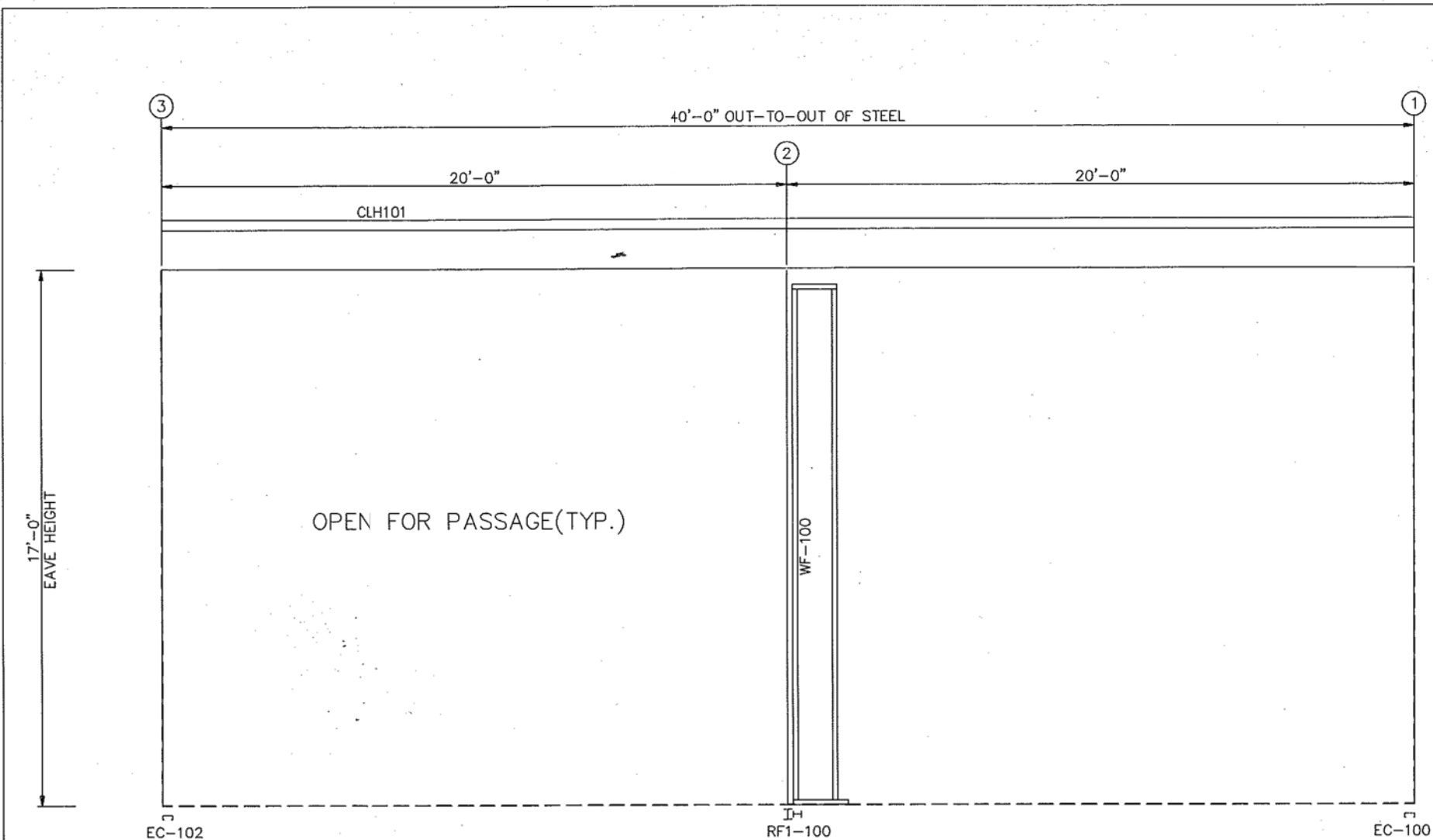
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ROOF FRAMING  
PLAN  
40 FT x 40 FT

TYPE	YEAR	PROJECT NO.	SHEET NO.
MAINT.	2016	99110-4272-04	7

BOLT TABLE			
FRAME LINE A			
LOCATION	QUAN	TYPE	DIA LENGTH
WF-100 -- RF1-100	18	A325	1/2" 1 1/2"

MEMBER TABLE		
FRAME LINE A		
QUAN	MARK	PART
1	WF-100	15W1306A



BACK SIDEWALL FRAMING: FRAME LINE A (AS SHOWN)  
FRONT SIDEWALL FRAMING: FRAME LINE C (OPPOSITE HAND)  
TRIM: 26 Ga. - POLAR WHITE

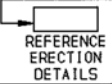
GENERAL NOTES:

- USE 1/2" x 1 1/4" A325 BOLTS FOR ALL GIRT LAP AND GIRT TO CLIP CONNECTIONS.
- THE DIAMETER OF THE BRACING IS DENOTED BY THE THIRD AND FOURTH DIGITS OF THE PIECE MARK.  
(EX. 08 = 3/8" x 10 = 3/8")
- ADEQUATE TEMPORARY BRACING MUST BE PROVIDED BY THE ERECTOR DURING THE ERECTION OF THE BUILDING.
- ALL PRIMARY AND SECONDARY FRAMING, WIND BRACING, ETC. MUST BE INSTALLED, PROPERLY ALIGNED, BOLTED OR WELDED PRIOR TO THE INSTALLATION OF THE PANELS.
- IT MAY BE NECESSARY DURING ERECTION TO MAKE MINOR ADJUSTMENTS AND ALIGNMENTS TO BOTH PURLINS AND GIRTS PRIOR TO INSTALLING PANELS.

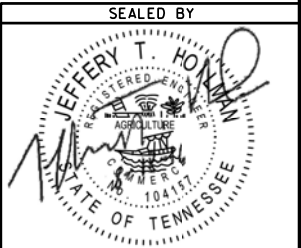
- ERECTOR TO FIELD SLCT FLUSH FRAME GIRTS FOR CABLE BRACING.
- BUILDER TO FIELD CUT OR BACK LAP PANELS AS REQUIRED.
- BEFORE INSTALLATION OF WALL PANELS, IT IS IMPORTANT TO REFERENCE WALL PANEL FASTENER LAYOUT DETAILS FROM THE BUILDING MANUFACTURER'S TO INSURE CORRECT USAGE OF FASTENERS.
- USE RVTCP AT 5'0" C/C FOR TEMPORARY INSTALLATION OF CLH TRIM.
- DRAWINGS ARE NOT TO SCALE.
- REF. MANUFACTURER FOR CAULKING AT TRIM LAPS.
- WARNING, PENCIL LEAD AND MARKER WILL CAUSE GALV. PANELS AND TRIM PIECES TO RUST. DO NOT USE THESE TO MARK ON PARTS.

DETAIL KEY

DETAIL NO.



NOTE: ALL GIRT LAPS NOT INDICATED WILL BE 0'2 1/2" DOOR GIRTS. ALL GIRTS ATTACHED AT ONE END TO A DOOR JAMB ARE 16 GAGE UNLESS NOTED OTHERWISE.

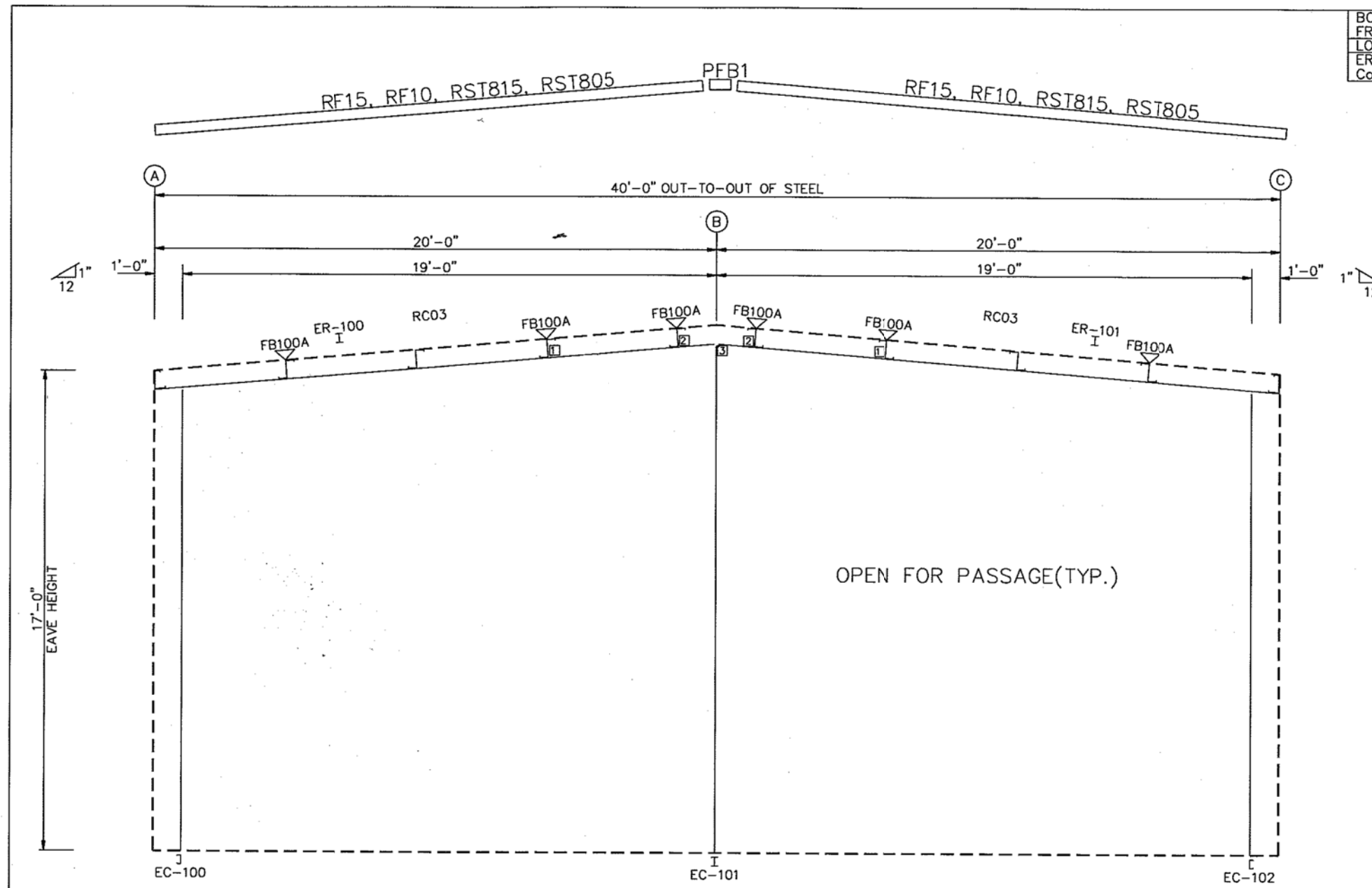


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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

BACK SIDEWALL  
40 FT x 40 FT

TYPE	YEAR	PROJECT NO.	SHEET NO.
MAINT.	2016	99110-4272-04	8



BOLT TABLE				
FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER 100/ER 101	8	A325	1/2"	1 1/2"
Columns/Raf	4	A325	1/2"	1 1/4"

CONNECTION PLATES		
FRAME LINE 1		
ID	QUAN	MARK/PART
1	2	PC20

MEMBER TABLE		
FRAME LINE 1		
QUAN	MARK	PART
1	EC-100	84C075
1	EC-101	W8x18
1	EC-102	84C075
1	ER-100	W8x10
1	ER-101	W8x10

FLANGE BRACE TABLE		
FRAME LINE 1		
ID	MARK	LENGTH
1	FB100A	2'-4 1/16"
2	SPCX	
3	AB-1	2x2x1/8"

LEFT ENDWALL FRAMING: FRAME LINE 1 (AS SHOWN)  
RIGHT ENDWALL FRAMING: FRAME LINE 3 (OPPOSITE HAND)  
TRIM: 26 Ga. - POLAR WHITE

GENERAL NOTES:

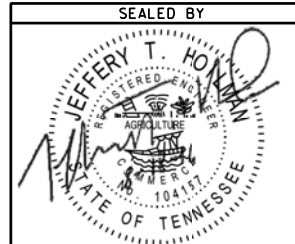
- USE 1/2" x 1 1/4" A325 BOLTS FOR ALL GIRT LAP AND GIRT TO CLIP CONNECTIONS.
- REFER TO BEARING FRAME DETAILS FROM THE MANUFACTURER FOR CONNECTION REQUIREMENTS OF RAFTER TO RAFTER AND RAFTER TO COLUMN.
- ADEQUATE TEMPORARY BRACING MUST BE PROVIDED BY THE ERECTOR DURING THE ERECTION OF THE BUILDING.
- ALL PRIMARY AND SECONDARY FRAMING, WIND BRACING, ETC. MUST BE INSTALLED, PROPERLY ALIGNED, BOLTED OR WELDED PRIOR TO THE INSTALLATION OF THE WALL PANELS.
- IT MAY BE NECESSARY DURING ERECTION TO MAKE MINOR ADJUSTMENTS AND ALIGNMENTS TO BOTH PURLINS AND GIRTS PRIOR TO INSTALLING PANELS.
- BUILDER TO FIELD CUT OR BACK LAP PANELS AS REQUIRED.
- BUILDER TO FIELD CUT PANELS AS REQ'D
- DRAWINGS ARE NOT TO SCALE.
- REF. MANUFACTURER FOR CAULKING AT TRIM LAPS.
- WARNING: PENCIL LEAD AND MARKER WILL CAUSE GALV. PANELS AND TRIM PIECES TO RUST. DO NOT USE THESE TO MARK ON PARTS.

DETAIL KEY

DETAIL NO.

REFERENCE ERECTION DETAILS

NOTE: ALL GIRT LAPS NOT INDICATED WILL BE 0'24" DOOR GIRTS.  
ALL GIRTS ATTACHED AT ONE END TO A DOOR JAMB ARE 16 GAGE UNLESS NOTED OTHERWISE.



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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

LEFT ENDWALL  
40 FT x 40 FT